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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,908	01/19/2001	Paul Eliot Green Jr.	2495.14 PCT	1582
5514	7590 12/07/2004		EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			KIM, ELLEN E	
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
	•		2874	

DATE MAILED: 12/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/673,908	GREEN JR., PAUL ELIOT			
Office Action Summary	Examiner	Art Unit			
	Ellen Kim	2874			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine					
	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	• • •	· ·			
11)☐ The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, 9, 12, 13, and 38 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Cogan et al [Applicant's submitted prior art, USPAT 4,938,571].

Cogan et al discloses an electrochromic light modulator and teach at column 6, lines 67-end that the device can be used as an attenuator, and teach at column 4, line 55 that the element 18 is made of electrochromic material.

With respect to all the method claims, the claimed method steps are inherently shown by the Cogan et al reference.

In re claims 4, 12, 13, electrodes 12 and 12' are shown in the drawing.

In re claim 9, Cogan et al teach at column 2, lines 30-36 that there are two stages of color in the device, and teach at column 2, liens 47-54 that the voltage is applied to the device.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, 10, 11, 19, 20, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatenorth [Applicant's submitted prior art, EP 0 766 358] in view of Cogan et al.

Hatenorth discloses an optical device comprising WDMUX, WMUX, and damping device [DG, see abstract].

Hatenorth discloses every aspect of claimed invention except for the body of electrochromic material.

Cogan et al disclose an electrochromic light modulator as discussed above.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Hatenorth's device to include the electrochromic light modulator as a damping device for the purpose of having a controllable, reproducible, and dynamic range of the damping device [see Cogan et al, column 2, lines 19-29]. It is clear this would improve the Hatenorth's device.

All the claimed method steps are inherently shown by the combined device of the Cogan et al and Hatenorth.

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Claims 5, 14, 15, 16, 22-25, and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cogan et al in view of Swan et al [Applicant's submitted prior art, USPAT 5,657,151].

Cogan et al discloses every aspect of claimed invention except for the first and second graded index lenses.

Swan et al teach at column 5, lines 53-65 that the graded index lens 304 and 305 are used for the purpose of focusing the divergent rays to produce collimated optical beam.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Cogan et al's device to include the graded index lenses as shown in Swan et al for the purpose of focusing the divergent rays to produce collimated optical beam so that the coupling light efficiency can be increased in the device.

All the claimed method steps are inherently shown by the combined device of the Cogan et al and Swan et al.

Claims 6, 8, 17, 18, 26, 27, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsushima et al [Applicant's submitted prior art, USPAT 5,600,466] in view of Cogan et al.

Tsushima et al disclose an optical signaling network apparatus comprising demultiplexer, multiplexer, and modulator [see front drawing].

Tsushima et al discloses every aspect of claimed invention except for the body of electrochromic material.

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Cogan et al disclose an electrochromic light modulator as discussed above.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Tsushima et al device to include the electrochromic light modulator as a damping device for the purpose of having a controllable, reproducible, and dynamic range of the damping device [see Cogan et al, column 2, lines 19-29].

All the claimed method steps are inherently shown by the combined device.

In re claim 7, Cogan et al teach at column 2, lines 30-36 that there are two stages of color in the device.

In re claims 8, 18, 27, Tsushima et al disclose at column 1, lines 18-25 that the optical system is suitable between local area network communication systems.

In re claim 37, Tsushima et al teach at column 6, lines 53-end that the digital signal is transmitted in the device.

Claims 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatenorth [Applicant's submitted prior art, EP 0 766 358] in view of Cogan et al, and further in view of Swan et al.

Hatenorth discloses an optical device comprising WDMUX, WMUX, and damping device [DG, see abstract].

Hatenorth discloses every aspect of claimed invention except for the body of electrochromic material, and the graded index lens.

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Cogan et al disclose an electrochromic light modulator as discussed above.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Hatenorth's device to include the electrochromic light modulator as a damping device for the purpose of having a controllable, reproducible, and dynamic range of the damping device [see Cogan et al, column 2, lines 19-29]. It is clear this would improve the Hatenorth's device.

Swan et al teach at column 5, lines 53-65 that the graded index lens 304 and 305 are used for the purpose of focusing the divergent rays to produce collimated optical beam.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify the device to include the graded index lenses as shown in Swan et al for the purpose of focusing the divergent rays to produce collimated optical beam so that the coupling light efficiency can be increased in the device.

Claims 35, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsushima et al [Applicant's submitted prior art, USPAT 5,600,466] in view of Cogan et al, and further in view of Swan et al.

Tsushima et al disclose an optical signaling network apparatus comprising demultiplexer, multiplexer, and modulator [see front drawing].

Tsushima et al discloses every aspect of claimed invention except for the body of electrochromic material, and the graded index lens.

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Cogan et al disclose an electrochromic light modulator as discussed above.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Tsushima et al device to include the electrochromic light modulator as a damping device for the purpose of having a controllable, reproducible, and dynamic range of the damping device [see Cogan et al, column 2, lines 19-29].

Swan et al teach at column 5, lines 53-65 that the graded index lens 304 and 305 are used for the purpose of focusing the divergent rays to produce collimated optical beam.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify the device to include the graded index lenses as shown in Swan et al for the purpose of focusing the divergent rays to produce collimated optical beam so that the coupling light efficiency can be increased in the device.

Conclusion

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Crystal Plaza Two, Lobby, Room 1B03

Arlington, VA 22202

- Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349. The examiner can normally be reached on Monday through Thursday.

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December 1, 2004/EK